DATA SHEET
Split Core DC Leakage Current Sensor

PN: CHD_SK15D5	IPN=50~3000mA

Feature

- Split Core DC Leakage Current Sensor develops on base of magnetic modulation closed loop principle
- Apply unique patented technology for measure tiny current (mA level)
- Supply voltage: DC ±12~15 V

Advantages

- High accuracy
- Easy installation
- Wide current measuring range
- Optimized response time
- Low power consumption
- High immunity to external interference
- Very good linearity
- Can be customized

Applications

- The current detection of the lift
- DC panel detection
- The signal system
- Current differential detection
- AC variable-speed drive/ Servo drive
- UPS and Inverter applications

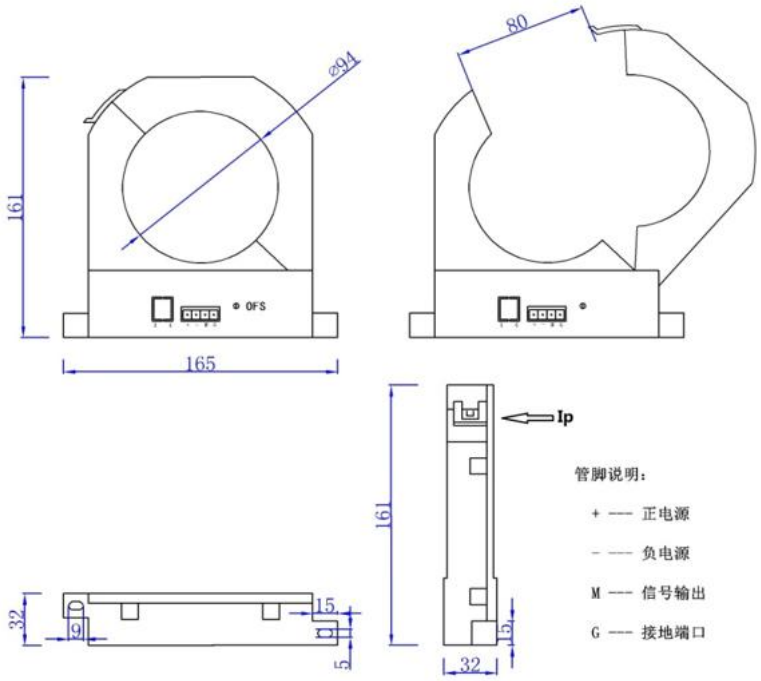
Electrical data：（Ta=25℃，Vc= ±15VDC,RL=10KΩ）

Parameter Ref	CHD50 SK15D_	CHD100 SK15D_	CHD200 SK15D_	CHD500 SK15D_	CHD1000 SK15D_	CHD2000 SK15D_	CHD3000 SK15D_
Rated input I_{PN} (mA DC)	±50	±100	±200	±500	±1000	±2000	±3000
Measuring range I_P (mA DC)	0～±100	0～±200	0～±400	0～±800	0～±2000	0～±3000	0～±5000
Output voltage Vo(V)	DC ±5V, 4-20mA, 0-20mA (±3%)						
Supply voltage V_{CC}(V)	(±12~±15) ±5%						
Accuracy X_G(%)	@IPN,T=25°C ≤±1						
Offset voltage V_{OE}(mV)	@IP=0,T=25°C <±500mV						
Temperature variation of V_{OE} V_{OT}(mV/°C)	@IP=0,-20 ~ +60°C ≤±6.0						
Linearity error εr(%FS)	≤1.0						
Current consumption I_C(mA)	<20mA						
Insulation voltage	@50/60Hz, 1min 2.5kV rms						

General data:

Parameter	Value
Operating temperature T_A(°C)	-25 +70
Storage temperature T_S(°C)	-40～+85
Load resistance (R_L)	≥10K
Plastic material	PBT G30/G15, UL94- V0;
Standards	IEC60950-1:2001
	EN50178:1998
	SJ20790-2000

Dimensions(mm):



Pin definition: 1: +(V_{CC}) 2: -(V_{CC}) 3: M (Vout) 4: G(GND) OFS: Zero adjustment (5.08 connector)
1: +(V_{CC}) 2: G(GND) 3: M (Vout) 4: -(V_{CC}) OFS: Zero adjustment（4P RJ11）

Remarks:

- During the installation process, on the sensor, close attention should be paid to side core interface is aligned, not forcibly closed.
- When the current goes through the primary pin of a sensor, the voltage will be measured at the output end.
- Custom design is available for the different rated input current and the output voltage.
- The dynamic performance is the best when the primary hole if fully filled with.
- The primary conductor should be <100°C.

WARNING : Incorrect wiring may cause damage to the sensor.